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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/611,451	06/30/2003	Alexander G. MacInnis	14447US01	1633
23446 7590 07/29/2009 MCANDREWS HELD & MALLOY, LTD 500 WEST MADISON STREET SUITE 3400 CHICAGO, IL 60661			EXAMINER YENKE, BRIAN P	
			ART UNIT 2622	PAPER NUMBER
			MAIL DATE 07/29/2009	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/611,451	Applicant(s) MACINNIS ET AL.	
	Examiner BRIAN P. YENKE	Art Unit 2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on PreAppeals Conference Request (02/23/09).
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 16-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 16-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to the claims have been considered but are not persuasive.

It is noted the applicant is arguing that it is not obvious to combine the deinterlacer into the video decoder. Initially the examiner notes, these are two different processes/procedures, wherein decoding must be performed prior to deinterlacing, thus the inclusion of the deinterlacing with the decoder, does not negate/change the steps/functions of either procedure, this is supported by the rejection below.

The rejection is made below based upon the concept as disclosed by the below references, that functions may be combined/integrated or not, this is known in the field of endeavor.

Claim Rejections - 35 USC § 112

2. Claims 16-27 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Independent claims 16 has language which recites "discrete components", as known in the electrical field of arts, such terminology refers to an electronic components with one circuit elements, which may be passive (resistor, capacitor...) or active (transistor) other than an integrated circuit

In the event the applicant deems support for such limitation, the examiner requests the applicant to identify where support for such is in the original disclosure. Alternatively, if the applicant is attempting to claim that the video decoder and display engine are separate components, or separate device or separate chips, clarification is requested, along with support from the original disclosure.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 16-27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wells, US 2004/0057624 in view of Choi, US 7,206,025.

In considering claims 16 and 22,

Wells discloses an integrated video decoder 202 (Figs 3-8) which includes the decompression engine, which also includes a deinterlacer and scaler (para 0014, 0016), wherein the scaler is met by post processing stage 206.

Wells discloses in the prior art and in one embodiment (Fig 3) that in a non-integrated system the decoder and deinterlacing chip are on separate chips (para 0014, 0033). The invention of Wells to provide an integrated video decoding system in which in one embodiment is fully integrated (Fig 7).

Based upon applicants arguments that Wells does not disclose an integrated decoder, deinterlacer the examiner will evidence such.

The concept of including all process/functions onto a single chip (i.e. which meets the video decoder comprising, since any item within a block/chip comprises the other such items...and the decoder and display engine are discrete components) is conventional practice in the art, as evidenced by Choi, US 7,206,025, which discloses a single chip conversion device (Fig 3).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to modify/utilize in Wells which discloses an integrated decoder system, to allow the system/designer the option of having all functions/components onto a single chip as done conventionally, which provides instant advantages with space savings and efficient utilization of system resources by such integration.

Regarding the discrete components/devices, as evidenced by Wells, components may be either integrated or non-integrated, thus the claimed video decoder and display engine may be integrated or non-integrated (i.e. separate elements).

In considering claims 17-18 and 22-23,

Wells discloses the use of MPEG2 (para 003), wherein Wells discloses that the majority of dominant compression schemes (i.e. MPEG-2) are lossy.

In considering claim 19 and 25,

Wells discloses the use of motion compensation (see para 001, 004, 006, 0017, 28, 31).

In Considering claims 20-21 and 26-27,

As stated above (claim 17) Wells discloses that the majority of compressed images are lossy, however the use of lossless decompression/Huffman decoding are notoriously well known in the field of endeavor in order to recover an image with little/no loss, thus the examiner takes "OFFICIAL NOTICE" regarding such.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (571)272-7359. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, David L. Ometz, can be reached at (571)272-7593.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(571)-273-8300

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703)305-HELP.

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800-PTO-9199 or 703-308-HELP

(FAX) 703-305-7786

(TDD) 703-305-7785

An automated message system is available 7 days a week, 24 hours a day providing informational responses to frequently asked questions and the ability to order certain documents. Customer service representatives are available to answer questions, send materials or connect customers with other offices of the USPTO from 8:30 a.m. - 8:00p.m. EST/EDT, Monday-Friday excluding federal holidays.

For other technical patent information needs, the Patent Assistance Center can be reached through customer service representatives at the above numbers, Monday through Friday (except federal holidays) from 8:30 a.m. to 5:00 p.m. EST/EDT.

The Patent Electronic Business Center (EBC) allows USPTO customers to retrieve data, check the status of pending actions, and submit information and applications. The tools currently available in the Patent EBC are Patent Application Information

Retrieval (PAIR) and the Electronic Filing System (EFS).

PAIR (<http://pair.uspto.gov>) provides customers direct secure access to their own patent application status information, as well as to general patent information publicly available. EFS allows customers to electronically file patent application documents securely via the Internet. EFS is a system for

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submitting new utility patent applications and pre-grant publication submissions in electronic publication-ready form. EFS includes software to help customers prepare submissions in extensible Markup Language (XML) format and to assemble the various parts of the application as an electronic submission package. EFS also allows the submission of Computer Readable Format (CRF) sequence listings for pending biotechnology patent applications, which were filed in paper form.

/BRIAN P. YENKE/
Primary Examiner, Art Unit 2622

B.P.Y.
22 July 2009